

**Public Notice**  
**PERMIT APPLICATION: NRS #07.001**

**APPLICANT:** TDOT  
505 Deaderick Street  
Suite 900 James K Polk Bldg.  
Nashville, TN 37243-0334  
(615) 253-2477

**LOCATION:** SR 52 Over Shanky Branch at LM 22.41  
Site Lat. 36.5244° Long. -85.4954°  
Clay County

**PROJECT DESCRIPTION:** This application is for an aquatic resource alteration permit associated with the widening of SR 52 for a 0.094 mile segment. Being removed and replaced is the bridge over Shanky Branch. An unnamed tributary and an adjacent wetland will also be impacted.

**WATERSHED DESCRIPTION:** This project is located the Upper Cumberland-Cordell Hull Lake Watershed, HUC 05130106. Land use is agricultural and rural residential. Shanky Branch has not been assessed with regard to meeting its designated uses. **USGS TOPO QUAD:** Dale Hollow Dam, TN (70-NE)

**Stream 1, Shanky Branch, Lat. 36.5244° Long. -85.4954°, Station 107+87,** is a second order stream approximately 6ft wide at the bottom, flowing on gravel and cobble substrate with wooded riparian zone. Proposed is the removal of the existing 26ft long, 13ft x 2ft single barrel box culvert and the installation of a 44ft long 12ft x 4ft double barrel concrete box culvert with 34.5ft of bank stabilization on the upstream right descending bank (RDB), 62.8 ft of rip rap on the left descending bank (LDB) downstream and 20.5 ft of rip rap downstream. Flow is to be diverted into the right barrel. A temporary crossing it to be constructed upstream, consisting of 2-56ft, 60-inch diameter metal pipes. Associated with this temporary crossing are impacts to wetland 1.

**Wetland 1 Adjacent to Shanky Branch, Lat. 36.5243° Long. -85.4944°** is an emergent wetland surrounding Shanky Branch upstream of SR 52 with ash saplings, carex sp., Juncus sp. and other herbs. Proposed are the permanent removal of .009 acres and temporary impacts to 0.0533 acres of wetland. The area of temporary wetland impacts will be restored to preconstruction condition.

**Stream 2, Unnamed Tributary to Shanky Branch, Lat. 36.3668° Long. -85.5046°,** is a first order stream approximately 2ft wide and 2ft deep flowing over soil and gravel substrate parallel to SR 52 west to Shanky Branch. The stream has limited canopy due to the proximity to the road. The stream is to be relocated from its 138ft channel including a 20 ft encapsulation into a 161ft channel including a 32ft encapsulation with 25ft sidewalls on the inlet and outlet.

As mitigation for the above impacts, 165ft of on site replacement including tree plantings is proposed.

Clay County

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will result in degradation to water quality for each stream. Tier Evaluations were conducted on Shanky Branch and the unnamed tributary, showing that the stream is Tier 1.

**Permit Coordinator:** Judy Manners

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying.

The department's address is:

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control, Natural Resources Section  
7th Floor L & C Annex  
401 Church Street  
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.

NRS07.001 SR 52 over Shanky Branch, Log Mile 22.41

Clay County

**Photos:**



**Shanky Branch upstream of SR 52**



**Wetland surrounding Shanky Branch upstream of SR 52**

NRS07.001 SR 52 over Shanky Branch, Log Mile 22.41

Clay County



**Shanky Branch downstream of SR 52**



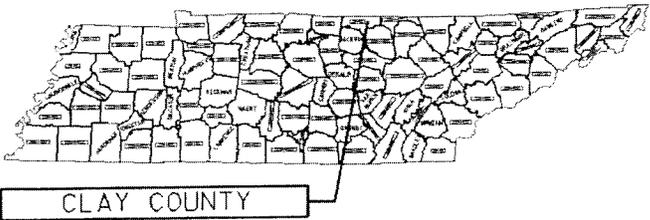
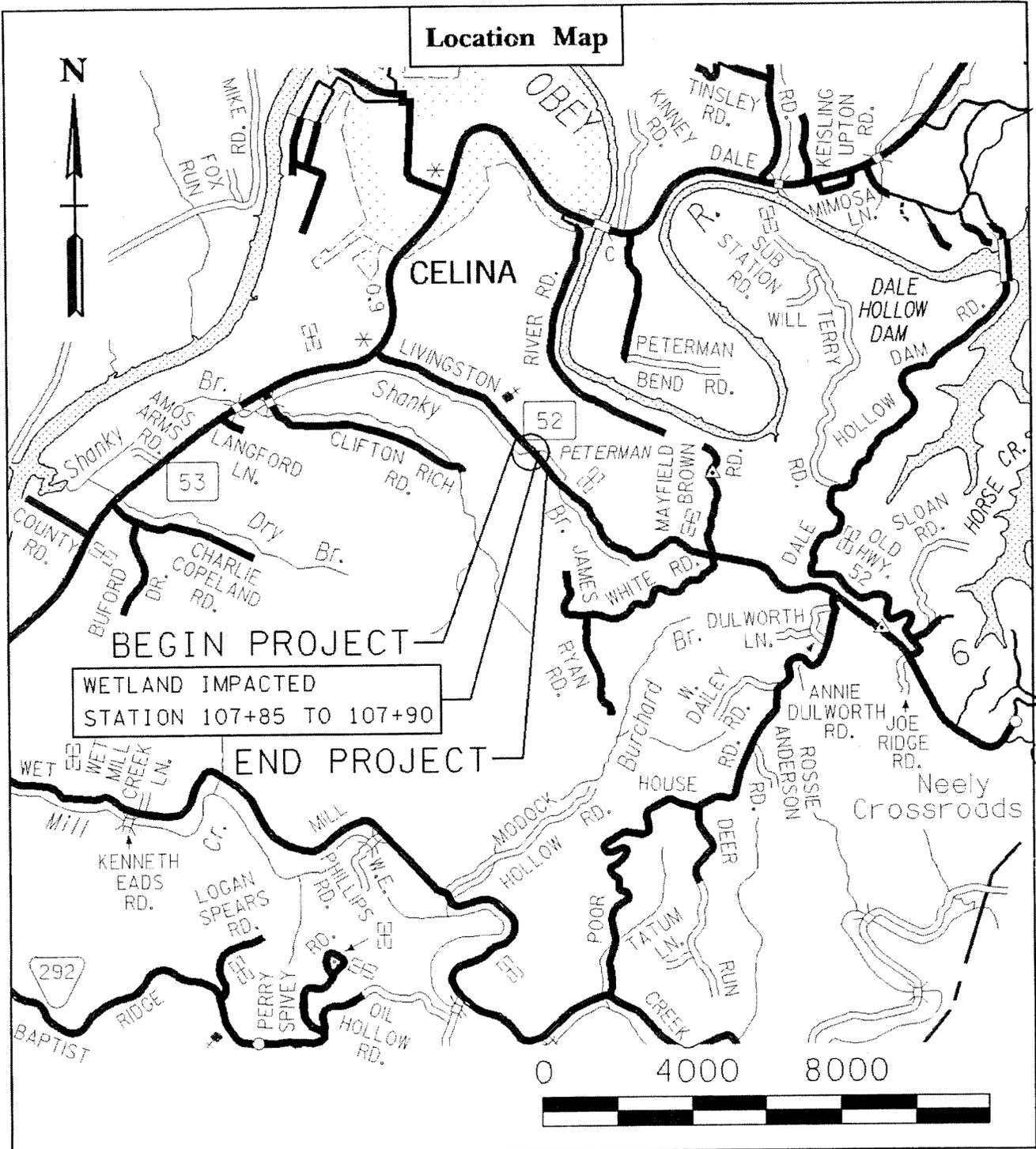
**Stream 2 entering Shanky Branch**

NRS07.001 SR 52 over Shanky Branch, Log Mile 22.41

Clay County



**Stream 2 at private drive way crossing**



CLAY COUNTY

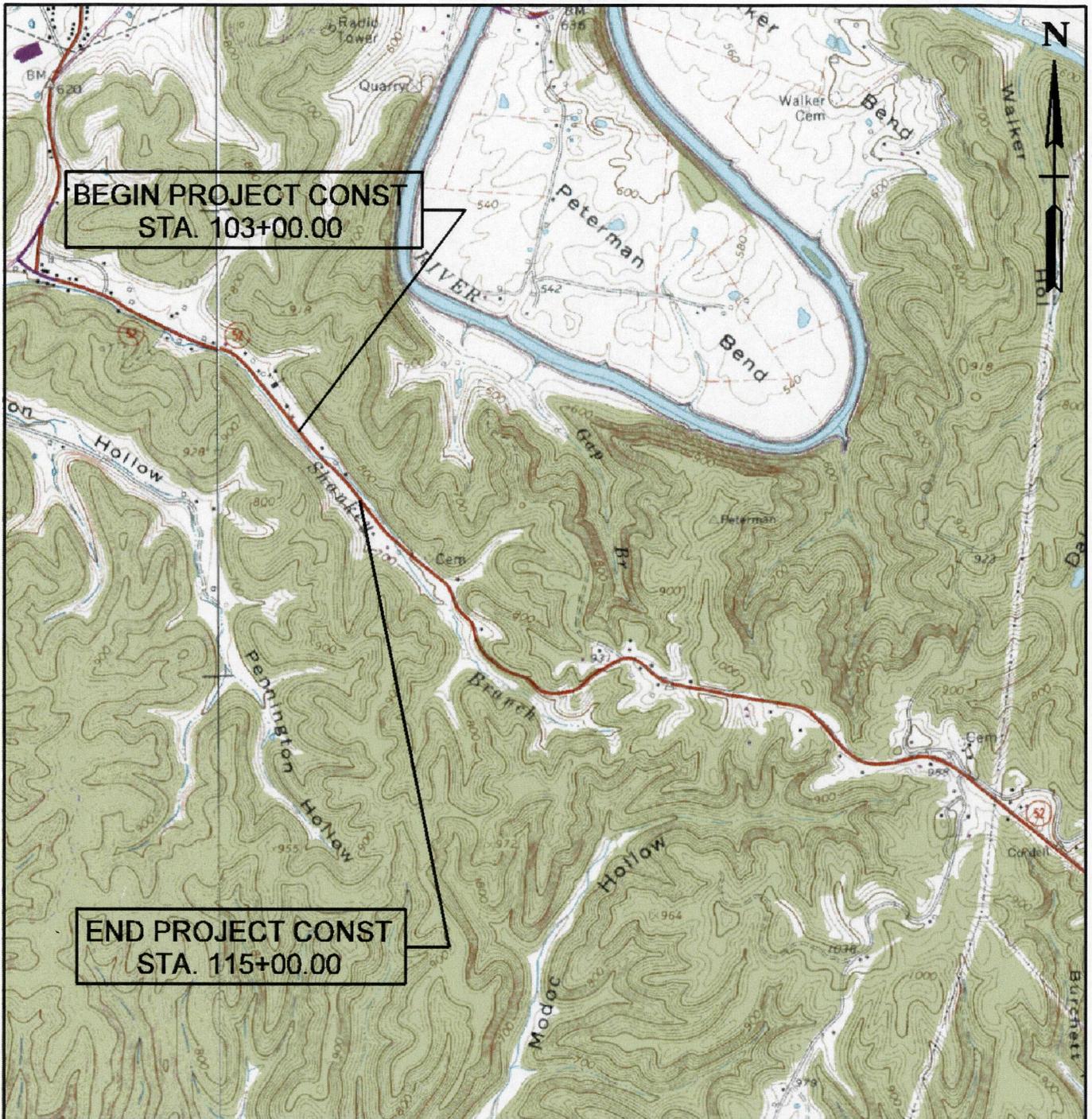
APPLICATION BY:  
 TENNESSEE DEPARTMENT OF TRANSPORTATION  
 P.E. # 98025-4287-04  
 R.O.W. PROJECT No. 14945-4251-04  
 PIN NO. 106183.01  
 PURPOSE: SMALL STRUCTURE REPLACEMENT  
 STATE ROUTE 52 LOG MILE 22.41  
 CELINA, CLAY COUNTY

DATE: 11/17/06

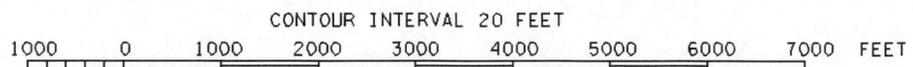
REVISED: 03/28/07

SHEET 1 OF 4

### VICINITY MAP



<p>APPLICATION BY:          TENNESSEE DEPARTMENT OF TRANSPORTATION          PE # 98025-4287.04          PIN 106183.01          FED. CONST. PROJ. #          QUAD: DALE HOLLOW DAM</p>	<p>STA. 107+87.00          S.R. 52 LM 22.41          DRAINAGE AREA: 271          DISTURBED AREA: 1.89          GRADE, DRAIN, BASE, PAVE AND          SMALL STRUCTURE REPLACEMENT          COUNTY: CLAY          NEAR: CELINA</p>
<p>DATE: 11/17/06      REVISED: / /</p>	<p>SHEET 2 OF 5</p>



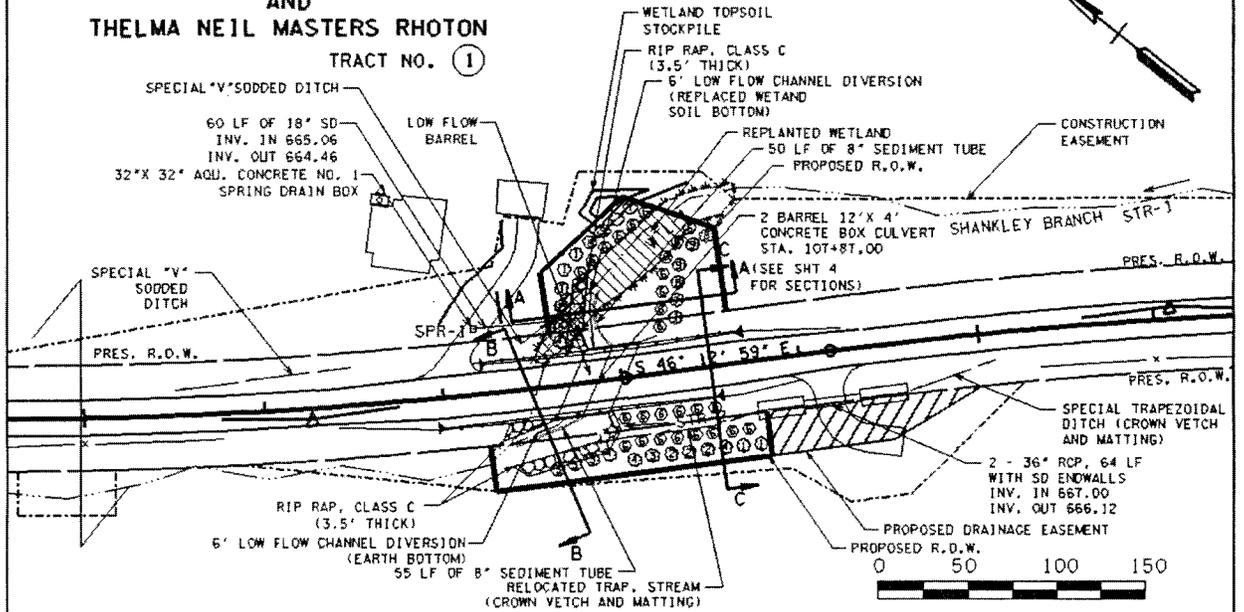
105+00

Permit Sketch

110+00

MARY JOYCE MASTERS PENNINGTON  
AND  
THELMA NEIL MASTERS RHOTON

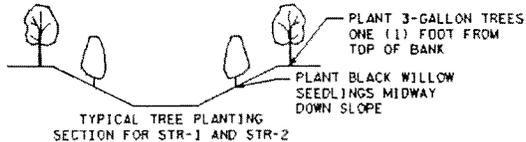
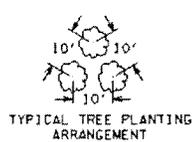
TRACT NO. ①



MITIGATION PLANT LIST

* ITEM *	DESCRIPTION	SIZE	UNIT	QUANT.
1	802-01.10 ACER NEGUNDO (BOX ELDER)	3 GAL. CONTAINER	EACH	7
2	802-01.11 LIRIODENDRON TULIPIFERA (TULIP TREE)	3 GAL. CONTAINER	EACH	5
3	802-01.12 JUGLANS NIGRA (BLACK WALNUT)	3 GAL. CONTAINER	EACH	2
4	802-01.13 ACER SACCHARUM (SUGAR MAPLE)	3 GAL. CONTAINER	EACH	4
5	802-01.14 CARYA TOMENTOSA (MOCKERNUT HICKORY)	3 GAL. CONTAINER	EACH	2
6	802-02.01 SALIX NIGRA (BLACK WILLOW)	18"-24" HT. BR	EACH	28
7	802-02.02 LIQUIDAMBAR STYACIFLUA (SWEETGUM)	18"-24" HT. BR	EACH	3
8	802-02.03 ACER RUBRUM (RED MAPLE)	18"-24" HT. BR	EACH	3
9	802-02.04 ALNUS SERRULATA (COMMON ALDER)	18"-24" HT. BR	EACH	3

- BR = BARE ROOT  
MITIGATION NOTES:  
1. TOP SIX INCHES OF TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCKPILED PRIOR TO CONSTRUCTION.  
2. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATION MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.  
3. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TEMPORARY WETLAND IMPACT AREAS ARE TO BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND STOCKPILED WETLAND TOPSOIL SPREAD TO RESTORE THESE AREAS TO PRE-CONSTRUCTION ELEVATION.



STREAM IMPACTS		
	STR-1	STR-2
EXISTING STREAM	84 LF	118 LF
EXISTING STRUCTURE	26 LF	20 LF
	110 LF	138 LF
PROPOSED STREAM	86 LF	79 LF
PROPOSED STRUCTURES	44 LF	32 LF
	130 LF	111 LF

LEGEND	WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.0090 AC.
	AREA OF TEMPORARY IMPACT = 0.0533 AC.

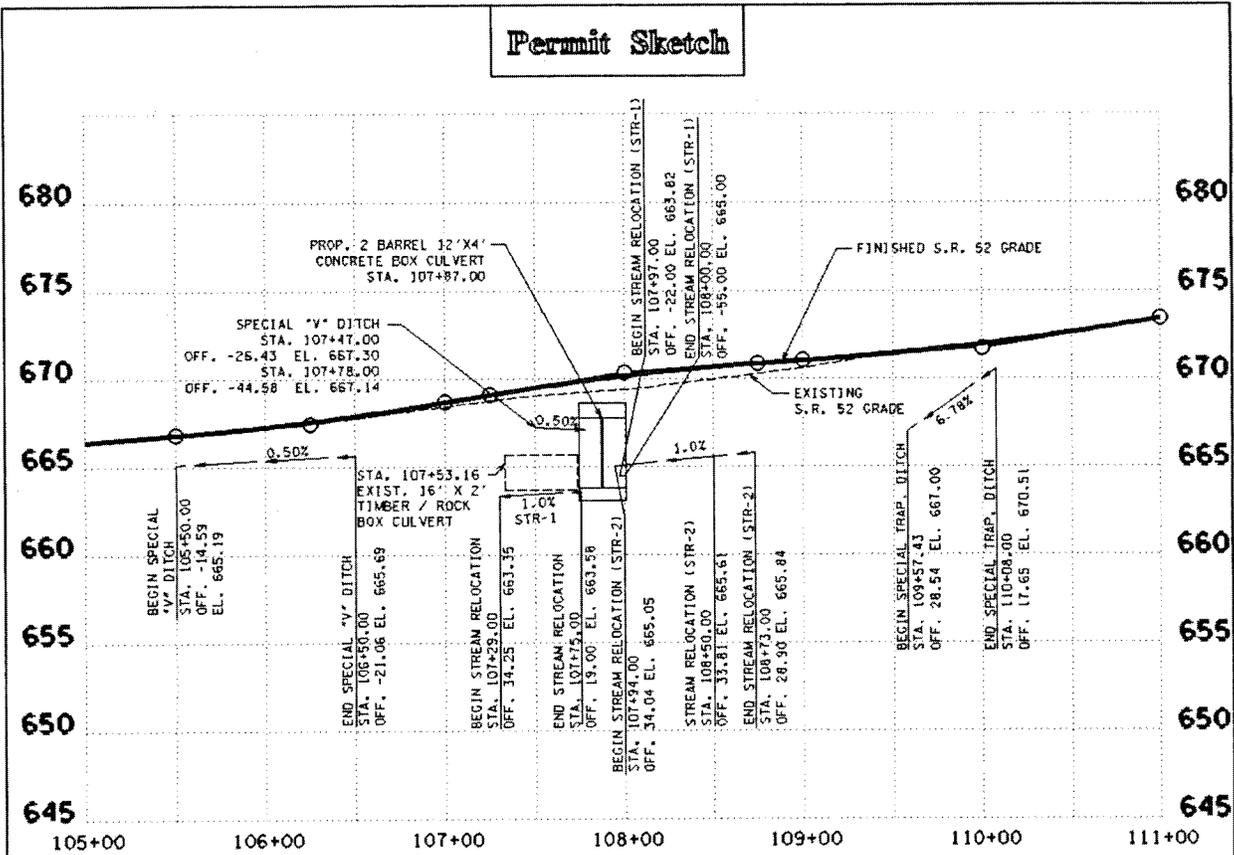
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# Permit Sketch

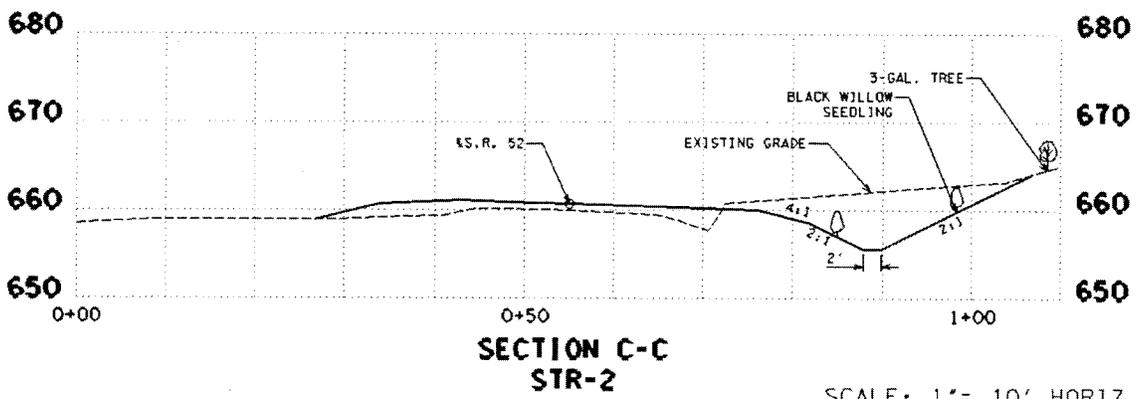
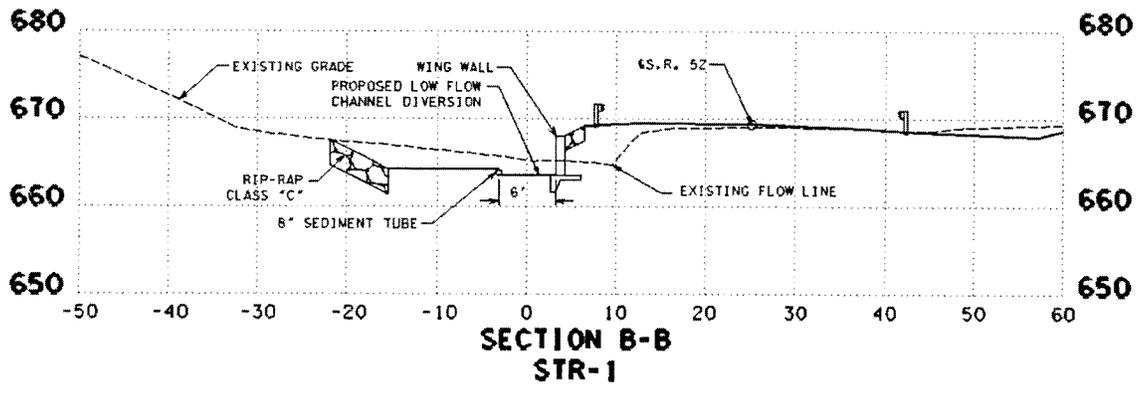
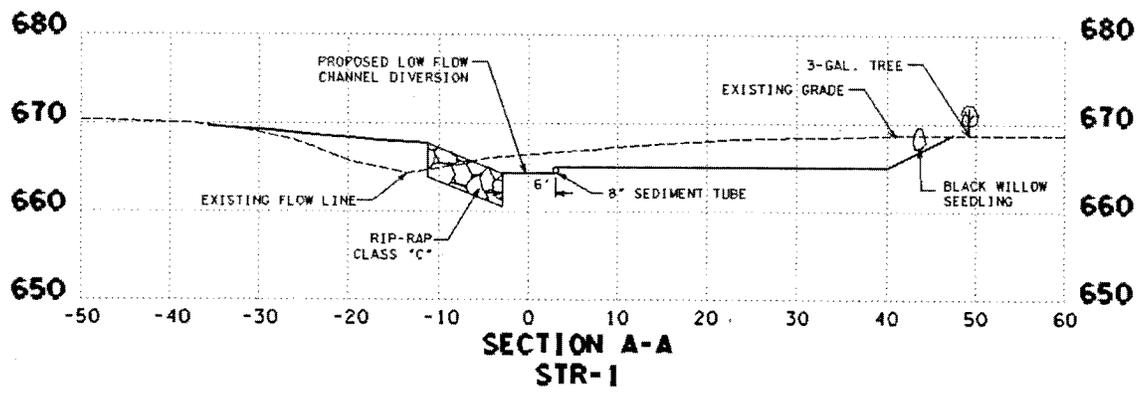


SCALE: 1" = 100' HORIZ.  
1" = 10' VERT.

## STREAM PROFILES

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